

L25 ANSWER 4 OF 4 MEDLINE DUPLICATE 3
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 TITLE: Bypass by an alternate 'carrier' of acquired
 unresponsiveness to hCG upon repeated immunization with
 tetanus-conjugated vaccine.
 AUTHOR: Gaur A; Arunan K; Singh O; Talwar G P
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 AB We report here the use of an alternative carrier diphtheria toxoid (DT)
 in human subjects to overcome antigen-specific unresponsiveness upon
 immunization with a **hapten/ligand**-carrier
conjugate. In the phase I clinical trial of a birth control
 vaccine using gonadotrophin subunits linked to tetanus toxoid, some of
 the subjects failed to evoke a booster antibody response to human chorionic
 gonadotrophin (hCG). Presentation of the ligand on DT instead in
 subsequent immunizations restored anti-hCG response.